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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/579,678	05/18/2006	Efraim Haimoff	27379U	9611
20529	7590	01/04/2011		
THE NATH LAW GROUP 112 South West Street Alexandria, VA 22314			EXAMINER	
			THROWER, LARRY W	
			ART UNIT	PAPER NUMBER
			1742	
			MAIL DATE	DELIVERY MODE
			01/04/2011	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/579,678

Applicant(s)

HAIMOFF, EFRAM

Examiner

LARRY THROWER

Art Unit

1742

Period for Reply -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 27 October 2010.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-30 and 32 is/are pending in the application.
- 4a) Of the above claim(s) 1-23 is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 24-30 and 32 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☐ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-945)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Response to Amendment

1. The amendment filed October 27, 2010 has been entered. Claims 1-23 are withdrawn; claims 24, 27, 29 and 32 are amended; claim 31 is canceled. Claims 24-30 and 32 are under examination.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.
3. **Claims 24-30 and 32** are rejected under 35 U.S.C. 103(a) as being unpatentable over Duret et al. (US 4,053,126).
- **Claims 24-25:** Duret et al. discloses manufacturing a composite article including a metal reinforcing element (42) and molded plastic coating firmly attached thereto (abstract), wherein the reinforcing element (42) is formed to define an open channel having a longitudinal axis and an open side parallel to the axis (fig. 13), and the plastic coating includes a portion formed as a wall mechanically closing the open side of the channel (col. 5, line 63 - col. 6, line 6; fig. 13), where the form of the metal reinforcing element allows insertion via the open side of the channel of a mold core (43) which is configured to provide mechanical stability to the reinforcing element (fig. 13). The method includes providing the metal reinforcing element (42);

providing the mold core (43), providing a mold (9) including at least two parts formed to define a mold cavity therebetween when the mold is assembled (col. 3, lines 3-11), the mold being adapted to accommodate the metal reinforcing element fixedly in the mold cavity and allowing space for the plastic coating (col. 3, lines 12-26); inserting the mold core so that the mold core provides mechanical support to the metal reinforcing element (fig. 13); assembly the mold parts and the metal reinforcing element with the inserted core therein so as to fix the reinforcing element in the mold cavity (fig. 13); injecting flowable and settable plastic coating into the space to form the composite article (col. 4, lines 13-25); and releasing the obtained article including the reinforcing element, the set plastic coating and the mold core by disassembling the mold 9 (col. 3, lines 3-11).

- Duret et al. is silent as to the direction of inserting or removing the mold core. However, absent unexpected results from inserting and/or removing the core in the claimed directions, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have inserted and removed the mold core in any selected direction relative to the metal reinforcing element as long as the core remained stationary in the mold throughout the duration of the molding procedure and was at least partially removable when the molding procedure was complete to create openings such as doors in the article, as taught by Duret et al. (col. 4, lines 58-63).
- **Claim 28:** Duret et al. discloses the reinforcing element having openings which are filled by the injected plastic coating (col. 4, lines 12-25; fig. 13).

- **Claims 26-27 and 29:** Duret et al. is silent as to the shape of the core or protrusions on the mold. However, there is no invention in merely changing the shape or form of an article without changing its function except in a design patent (see *Eskimo Pie Corp. vs. Levous et al.*, 3 USPQ 23 and *In re Dailey*, 357 F.2d 669, 149 USPQ 47 (CCPA 1966)).
- **Claim 30:** Duret et al. discloses the mold core being assembled from at least two parts divided along a channel for the purpose of demolding the article (col. 3, lines 5-10).
- **Claim 32:** Duret et al. is silent as to the claimed dimensions of the coating. However, absent evidence of unexpected results obtained from a coating of the claimed thickness, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have selected a suitable coating to effectively produce the article, the thickness being a result effective variable routinely optimized by those of skill in the art and recognized as such by Duret et al. (col. 4, lines 27-31). The optimization of a range or other variable within the claims that flows from the "normal desire of scientists or artisans to improve upon what is already generally known" is *prima facie* obvious. *In re Peterson*, 315 F.3d 1325, 1330 (Fed. Cir. 2003).

Response to Arguments

4. Applicant's arguments filed October 27, 2010 have been fully considered but they are not persuasive.

- Applicant argues that because the thermal screen of Duret does not provide mechanical support to the reinforcing element, it cannot be a mold core as claimed. Because of the amendment to the claims to require the mold core to provide mechanical stability to the reinforcing element, the rejection now relies on mold core 43 of Duret, which provides mechanical stability to metal reinforcing element 42 as shown in fig. 13 and describe at col. 5, lines 56-62. Duret et al. is silent as to the direction of inserting or removing mold core 43. However, absent unexpected results from inserting and/or removing the core in the claimed directions, it would have been obvious to one of ordinary skill in the art at the time the invention was made to have inserted and removed the mold core in any selected direction relative to the metal reinforcing element as long as the core remained stationary in the mold throughout the duration of the molding procedure and was at least partially removable when the molding procedure was complete to create openings such as doors in the article, as taught by Duret et al. (col. 4, lines 58-63).

Conclusion

5. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within

TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LARRY THROWER whose telephone number is 571-270-5517. The examiner can normally be reached on Monday through Friday from 9:30AM-6PM est.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christina A. Johnson can be reached on 571-272-1176. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Larry Thrower/
Examiner, Art Unit 1742

/Christina Johnson/
Supervisory Patent Examiner, Art Unit 1742